

What is claimed is:

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1. Antibodies obtained by using as an immunogen a partial peptide comprising phosphorylation sites of phosphorylated tau protein in a paired helical filament.
- 5 2. Antibodies defined in claim 1, recognizing the phosphorylation site(s) of phosphorylated tau protein which site(s) are one or more amino acid residues selected from serine at position 198, serine at position 199, serine at position 202, threonine at position 205, 10 threonine at position 231, serine at position 235, serine at position 262, serine at position 396, threonine at position 403, serine at position 404, serine at position 409, serine at position 412, serine at position 413, and serine at position 422 of an amino acid sequence of SEQ ID NO: 1.
- 15 3. Antibodies defined in claim 1, recognizing the phosphorylation site(s) of phosphorylated tau protein which site(s) are one or more amino acid residues selected from serine at position 199, serine at position 202, threonine at position 205, threonine at position 20 231, serine at position 235, serine at position 262, serine at position 396, serine at position 404, serine at position 412, serine at position 413, and serine at position 422 of an amino acid sequence of SEQ ID NO: 1.
- 25 4. Antibodies defined in any one of claims 1 to 3, which recognize the partial peptide comprising the

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phosphorylation site(s) which peptide comprises an amino acid residue at the phosphorylation site(s) and plural amino acid residues before and/or after the phosphorylation site.

5. Antibodies defined in any one of claims 1 to 4, which recognize the partial peptide comprising the phosphorylation site, which peptide has an amino acid sequence of any one of SEQ ID NO: 2 to SEQ ID NO: 16.

10. 6. A reagent kit used for detecting Alzheimer's disease, comprising at least the antibodies as defined in any one of claims 1 to 5.

15. 7. Methods for detecting Alzheimer's disease, which are characterized by examining reactivity of the antibodies, as defined in any one of claims 1 to 5, with a sample from an individual suspected of Alzheimer's disease.

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